

E72-10105

CR - 128154

"Made available under NASA sponsorship
in the interest of early and wide dis-
semination of Earth Resources Survey
Program information and without liability
for any use made thereof."

A STUDY OF QUATERNARY LANDFORMS AND MATERIALS

in the

MIDWEST AND GREAT PLAINS 1/
(SR 238)

Roger B. Morrison (Principal Investigator)
U.S. Geological Survey
Denver, Colorado 80225

George R. Hallberg (Co-Principal Investigator)
Iowa Geological Survey
Iowa City, Iowa 52240

1 September 1972

Type I Progress Report for Period 1 July 1972 - 31 August 1972

Prepared for:

Goddard Space Flight Center
Greenbelt, Maryland 20771

(E72-10105) A STUDY OF QUATERNARY
LANDFORMS AND MATERIALS IN THE MIDWEST AND
GREAT PLAINS Progress Report, 1 Jul. - 31
Aug. 1972 R.B. Morrison, et al (Geological
Survey) 1 Sep. 1972 3 p
N72-32489
Unclas
CSCI 08G G3/15 00105

E72-10105
CR-128154

Type I Progress Report

ERTS-1

- a. A study of Quaternary Landforms and materials in the Midwest and Great Plains.

ERTS-A Proposal No. SR 238

Principal Investigator

- b. GSFC ID No. of ~~XXXXXXXXXX~~: IN 404

- c. and d. No significant results can be reported on this project, because the investigators have not received any imagery. The past report period has been used to organize the research effort in the following ways:

1. To establish rapport with the six cooperating State Geological Surveys.
2. To compile all readily available ground information within the project priority areas; this information consists, in part, of;
 - a. Geologic maps and reports -- bedrock and surficial.
 - b. Soil Survey data -- county reports, soil association maps, etc.
 - c. Maps of buried bedrock surface.
 - d. Topographic map coverage.
 - e. U.S.D.A., U.S.G.S., and N.A.S.A. aerial photographic coverage.

3. To integrate the existing ground information into maps at a scale suitable for comparison with ERTS imagery. (The investigators are using 1:250,000-scale U.S.G.S. topographic maps.)

The Principal Investigator is also trying to involve other State and federal agencies in Iowa so that regional soil-association mapping and land-utilization studies may be attempted within the limited priority areas in Iowa.

During the next reporting period, we assume that imagery will be delivered to the investigators. Evaluation and interpretation of the imagery will begin at that time.

e. through k. Not applicable.